05-05-08

Attorney's Docket No.: 119362-00002/1227B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Barbas III *et al.*	Art Unit	: 1652
Patent No.	: 7,329,728	Examiner	: Lorraine Spector
Issue Date	: February 12, 2008	Conf. No.	: 6568
Serial No.	: 09/586,625	Cust. No.	: 77202
Filed	: June 2, 2000		
Title	: LIGAND ACTIVATED TRANSCRIPTIONAL REGULATOR PROTEINS		

Attn.: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Dear Sir:

Transmitted herewith are a Request for a Certificate of Correction pursuant to C.F.R. § 1.322 & 1.323 (6 pages), supporting documents (9 pages), Certificate of Correction Form PTO-1050 (5 pages), and a return postcard for filing in connection with the above-identified application. Since not all the errors are those of the Patent Office, the Office is hereby authorized to charge the fee required by 37 CFR §1.20(a) to Deposit Account No. 02-1818.

☒ The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 02-1818. A duplicate of this sheet is enclosed.

Respectfully submitted,

Stephanie Seidman
Reg. No. 33,779

Attorney Docket No. 119362-00002/1227B
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I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

Jon Levy

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

Dear Sir:

Pursuant to 37 C.F.R. § 1.322, the patentee respectfully requests that a Certificate of Correction be issued for the above referenced patent to correct the following errors:

IN THE TITLE PAGES:

In Item (56) References Cited, in U.S. PATENT DOCUMENTS:

please add the following reference:	—2003/0186841	10/2003	Barbas III et al.—
please add the following reference:	—2004/0224385	4/2005	Barbas et al.—
please add the following reference:	—2005/0084885	4/2005	Barbas III et al.—
please add the following reference:	—2005/0148075	7/2005	Barbas, C.F.—
please add the following reference:	—6,790,941	9/2004	Barbas III et al.—

In Item (56) References Cited, in FOREIGN PATENT DOCUMENTS:

please add the following reference:	—WO	1/52620	07/2001—
please add the following reference:	—WO	2/06463	01/2002—
please add the following reference:	—WO	2002/097050	12/2002—

In Item (56) References Cited, in OTHER PUBLICATIONS:

05/05/2008 CCHAU1 00000067 021818 7329728
01 FC:1811 100.00 DA

CERTIFICATE OF MAILING BY "EXPRESS MAIL"
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"Express Mail" Mailing Label Number **EM 247735892 US**
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I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

Jon Levy

please add the following reference: — Alwin et al., "Custom zinc-finger nucleases for use in human cells," Mol. Ther. 12(4): 610-617 (2005)—.

please add the following reference: — Blancafort et al., "Designing transcription factor architectures for drug discovery," Mol. Pharmacol. 66(6): 1361-71 (2004)—.

please add the following reference: — Blancafort et al., "Genetic reprogramming of tumor cells by zinc finger transcription factors," Proc. Natl. Acad. Sci. USA 102(33): 11716-21 (2005)—.

please add the following reference: — Blancafort et al., "Scanning the human genome with combinatorial transcription factor libraries," Nature Biotechnol. 31(3): 269-274 (2003)—.

please add the following reference: — Blau et al., "γ-globin gene expression in CID-dependent multi-potential cells established from beta-YAC transgenic mice," J. Biol. Chem. August 30, 2005—.

please add the following reference: — Dreier et al., "Development of zinc finger domains for recognition of the 5'-ANN-3' family of DNA sequences and their use in the construction of artificial transcription factors," J. Biol. Chem. 276(31): 29466-78 (2001)—.

please add the following reference: — Dreier et al., "Development of zinc finger domains for recognition of the 5'-CNN-3' family DNA sequences and their use in the construction of artificial transcription factors," J. Biol. Chem. 280(42):35588-35597 (2005)—.

please add the following reference: — Graslund et al., "Exploring strategies for the design of artificial transcription factors: targeting sites proximal to known regulatory regions for the induction of γ-globin expression and the treatment of sickle cell disease," J. Biol. Chem. 280(5): 3707-14 (2005)—.

please add the following reference: — Guan et al., "Heritable endogenous gene regulation in plants with designed polydactyl zinc finger transcription factors," Proc. Natl. Acad. Sci. USA 99(20): 13296-301 (2002)—.

please add the following reference: — Lin et al., "Small-molecule switches for zinc finger transcription factors," J. Am Chem. Soc. 125(3): 612-3 (2003)—.

please add the following reference: — Lund et al., "Promoter-targeted phage display selections with preassembled synthetic zinc finger libraries for endogenous gene regulation," J. Mol. Biol. 340(3): 599-613 (2004)—.

please add the following reference: — Lund et al., "Zinc Finger Transcription Factors Designed for Bispecific Coregulation of ErB2 and ErbB3 Receptors: Insights into ErbB Receptor Biology," Mol. Cell. Biol. 25(20): 9082-91 (2005)—.

please add the following reference: — Magnenat et al., "In vivo selection of combinatorial libraries and designed affinity maturation of polydactyl zinc finger transcription factors for ICAM-1 provides new insights into gene regulation," J. Mol. Biol. 341(3): 635-49 (2004)—.

please add the following reference: — Ordiz et al., "Regulation of transgene expression in plants with polydactyl zinc finger transcription factors," Proc. Natl. Acad. Sci. USA 99(20): 13290-5 (2002)—.

please add the following reference: — Segal et al., "Custom DNA-binding proteins come of age: polydactyl zinc-finger proteins," Curr. Opin. Biotechnol. 12(6): 632-7 (2001)—.

please add the following reference: — Segal et al., "Evaluation of a modular strategy for the construction of novel polydactyl zinc finger DNA-binding proteins," Biochemistry 42(7): 2137-2148 (2003)—.

please add the following reference: — Segal et al., "Attenuation of HIV-1 replication in primary human cells with a designed zinc finger transcription factor," J. Biol. Chem. 279(15): 14509-19 (2004)—.

please add the following reference: — Segal et al., "Zinc fingers and a green thumb: manipulating gene expression in plants," Curr. Opin. Plant Biol. 6(2): 163-8 (2003)—.

please add the following reference: — Stege et al., "Controlling gene expression in plants using synthetic zinc finger transcription factors," Plant J. 32(6): 1077-86 (2002)—.

please add the following reference: — Tan et al. , "Fusion proteins consisting of human immunodeficiency virus type 1 integrase and the designed polydactyl zinc finger protein E2C direct integration of viral DNA into specific sites," J. Virol. 78(3): 1301-13 (2004)—.

please add the following reference: — Xu et al., "A versatile framework for the design of ligand-dependent, transgene-specific transcription factors," Mol. Ther. 3(2): 262-73 (2001)
—.

in Rollins, et al., please replace "TFIIA" with — TFIIIA—.

IN THE CLAIMS

Please replace claims 32, 34 and 35 with the following amended claims:

32. The vector of claim 31 that is selected from the group consisting of an adenoviral vector, [[and]] an adeno-associated viral vector, a herpes virus vector, a vaccinia virus vector and a lentiviral vector.

34. The vector of claim 33 that is selected from the group consisting of an adenoviral vector, [[and]] an adeno-associated viral vector, a herpes virus vector, a vaccinia virus vector and a lentiviral vector.

35. A combination, comprising:

a composition containing a fusion protein of claim 1; or

a ~~compositions~~ composition containing a nucleic acid molecule comprising a sequence of nucleotides that encodes the fusion protein; and

a composition containing a regulatable expression cassette that comprises at least one response element recognized by the nucleic acid binding domain of the fusion protein.

REMARKS

A Certificate of Correction (Form PTO-1050) incorporating the above changes is included with this Request. Since not all the errors are those of the Patent Office, the Office is hereby authorized to charge any fees due herein to Deposit Account No. 02-1818.

This Certificate of Correction seeks to correct omissions by the PTO in the "U.S. PATENT DOCUMENTS," "FOREIGN PATENT DOCUMENTS" and "OTHER PUBLICATIONS" sections of the References Cited, Item (56). These references were provided to the Patent Office on a PTO-1449 form on November 22, 2005. A copy of the examiner-initialed PTO-1449 form, mailed to the Applicant on August 7, 2006, is attached herewith as evidence for the incorporation of these references.

Additionally, this Certificate of Correction seeks to correct a typographical error made by the PTO in the "OTHER PUBLICATIONS" section of the References Cited, Item [56]. The amendment to Rollins et al., corrects a spelling mistake in the title of the reference by replacing "TFIIA" with — TFIIIA—. Basis for this correction can be found on page 6 of the PTO-1449 form submitted to the Patent Office on January 16, 2001 and subsequently initialed by the Examiner on January 31, 2002 (attached herewith), which provides the title of the Rollins et al., reference with the correct spelling.

This Certificate of Correction also seeks to correct obvious typographical errors in the Claims. Claims 32 and 34 are amended to correct the typographical error in which "and" was recited instead of "an" before "adeno-associated viral vector," such that the phrase now reads as —an adeno-associated viral vector—. Claim 35 is amended by replacing the word "compositions" with —composition— to render the phrase grammatically correct.

Patentee respectfully requests correction of errors by issuance of a Certificate of Correction.

Respectfully submitted,

Stephanie Seidman
Reg. No. 33,779

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Facsimile: (858) 509-7460
email: sseidman@bellboyd.com

Substitute Form PTO-1449 (Modified) U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17083-003002/1227B	Application No. 09/586,625
List of Patents and Publications for Applicant's Information Disclosure Statement (37 CFR §1.98(b))	Applicant: Carlos F. Barbas III et al.	
	Filing Date: June 2, 2000	Group Art Unit: 1646

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	~~AA~~	~~2003/0143569~~	~~07/31/03~~	~~Sangamo, R.P.~~	~~705~~	~~1~~	~~03/27/01~~
SHS	AB	2003/0186841	10/02/03	Barbas III et al.	514	1	04/23/03
	AC	2004/0224385	04/21/05	Barbas et al.	435	69.1	06/18/04
	AD	2005/0084885	04/11/05	Barbas, III et al.	435	6	09/14/04
	AE	2005/0148075	07/07/05	Barbas, C.F.	435	455	08/21/03
	AF	6,790,941	09/14/04	Barbas III et al.	530	400	02/09/00

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation Yes	Translation No
SHS	AG	01/52620	07/26/01	PCT				
	AH	02/06463	01/24/02	PCT				
	AI	2002/097050	12/05/02	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
SHS	AJ	Alwin et al., "Custom zinc-finger nucleases for use in human cells," Mol. Ther. 12(4): 610-617 (2005)
	AK	Beerli, R.R.and C.F. Barbas III, "Engineering polydactyl zinc-finger transcription factors," Nature Biotechnology 20(2): 135-41 (2002)
	AL	Blancafort et al., "Designing transcription factor architectures for drug discovery," Mol. Pharmacol. 66(6): 1361-71 (2004)
	AM	Blancafort et al., "Genetic reprogramming of tumor cells by zinc finger transcription factors," Proc. Natl. Acad. Sci. USA 102(33): 11716-21 (2005)
	AN	Blancafort et al., "Scanning the human genome with combinatorial transcription factor libraries," Nature Biotechnol. 31(3): 269-274 (2003)
	AO	Blau et al., "γ-globin gene expression in CID-dependent multi-potential cells established from beta-YAC transgenic mice," J. Biol. Chem. August 30, 2005
	AP	Dreier et al., "Development of zinc finger domains for recognition of the 5'-ANN-3' family of DNA sequences and their use in the construction of artificial transcription factors," J. Biol. Chem. 276(31): 29466-78 (2001)
	AQ	Dreier et al., "Development of zinc finger domains for recognition of the 5'-CNN-3' family DNA sequences and their use in the construction of artificial transcription factors," J. Biol. Chem. 280(42):35588-35597 (2005)

Examiner Signature	Date Considered
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17083-003002/1227B	Application No. 09/586,625
List of Patents and Publications for Applicant's Information Disclosure Statement		Applicant Carlos F. Barbas III et al.	
		Filing Date June 2, 2000	Group Art Unit 1646
(37 CFR §1.98(b))			

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
SHS	AR	Graslund et al., "Exploring strategies for the design of artificial transcription factors: targeting sites proximal to known regulatory regions for the induction of γ-globin expression and the treatment of sickle cell disease," J. Biol. Chem. 280(5): 3707-14 (2005)
	AS	Guan et al., "Heritable endogenous gene regulation in plants with designed polydactyl zinc finger transcription factors," Proc. Natl. Acad. Sci. USA 99(20): 13296-301 (2002)
	AT	Lin et al., "Small-molecule switches for zinc finger transcription factors," J. Am Chem. Soc. 125(3): 612-3 (2003)
	AU	Lund et al., "Promoter-targeted phage display selections with preassembled synthetic zinc finger libraries for endogenous gene regulation," J. Mol. Biol. 340(3): 599-613 (2004)
	AV	~~Lund et al., "Zinc Finger Transcription Factors Designed for Dispecific Coregulation of ErB2 and ErbB3 Receptors: Insights into ErbB Receptor Biology," Mol. Cell. Biol. 25(20): 9082-91 (2005)~~
SHS	AW	Magnenat et al., "In vivo selection of combinatorial libraries and designed affinity maturation of polydactyl zinc finger transcription factors for ICAM-1 provides new insights into gene regulation," J. Mol. Biol. 341(3): 635-49 (2004)
	AX	Ordiz et al., "Regulation of transgene expression in plants with polydactyl zinc finger transcription factors," Proc. Natl. Acad. Sci. USA 99(20): 13290-5 (2002)
	AY	Segal et al., "Custom DNA-binding proteins come of age: polydactyl zinc-finger proteins," Curr. Opin. Biotechnol. 12(6): 632-7 (2001)
	AZ	Segal et al., "Evaluation of a modular strategy for the construction of novel polydactyl zinc finger DNA-binding proteins," Biochemistry 42(7): 2137-2148 (2003)
	BA	Segal et al., "Attenuation of HIV-1 replication in primary human cells with a designed zinc finger transcription factor," J. Biol. Chem. 279(15): 14509-19 (2004)
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	BC	Stege et al., "Controlling gene expression in plants using synthetic zinc finger transcription factors," Plant J. 32(6): 1077-86 (2002)
	BD	Tan et al., "Fusion proteins consisting of human immunodeficiency virus type 1 integrase and the designed polydactyl zinc finger protein E2C direct integration of viral DNA into specific sites," J. Virol. 78(3): 1301-13 (2004)
	BE	Xu et al., "A versatile framework for the design of ligand-dependent, transgene-specific transcription factors," Mol. Ther. 3(2): 262-73 (2001)

Examiner Signature	Shulamith H. Shafer	Date Considered 07/10/2006

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 22908-1227B	SERIAL NO. 09/586,625
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT Barbas III et al.	
	FILING DATE 06/02/00	GROUP 1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AA	4	3	9	4	4	4	3	07/19/83	Weissman et al.	435	6	12/18/80
	AB	4	4	4	6	2	3	5	05/01/84	Seeburg	435	91	03/22/82
	AC	4	9	9	0	6	0	7	02/05/91	Katagiri *et al.*	536	27	03/14/89
	AD	5	1	9	8	3	4	6	03/30/93	Ladner *et al.*	435	69.1	07/26/90
	AE	5	3	6	4	7	9	1	11/15/94	Vegeto et al.	435	320.1	05/14/92
	AF	5	3	7	6	5	3	0	12/27/94	De The *et al.*	435	6	07/22/93
	AG	5	5	7	8	4	8	3	11/26/96	Evans *et al.*	435	240.2	06/21/91
	AH	5	7	8	9	5	3	8	08/04/98	Rebar et al.	530	324	04/18/97
	AI	5	8	7	4	5	3	4	02/23/99	Vegeto et al.	530	350	06/05/95
	AJ	5	9	3	5	9	3	4	08/10/99	Vegeto et al.	514	44	05/30/95

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes	Translation No
	AK	0	0	2	3	4	6	4	05/27/00	PCT				
	AL	9	3	2	3	4	3	1	11/25/93	PCT				
	AM	9	5	1	9	4	3	1	07/20/95	PCT				
	AN	9	6	4	0	9	1	1	12/19/96	PCT				
	AO	9	8	1	8	9	2	5	05/07/98	PCT				
	AP	9	8	5	4	3	1	1	12/03/98	PCT				

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	Agarwal *et al.* Stimulation of Transcript Elongation Requires both the Zinc Fingers and RNA Polymerase II Binding Domains of Human TFIIS, Biochemistry 30:7842-51 (1991).
	AR	Altschul *et al.*, Basic Local Alignment Search Tool, J. Mol. Biol. 215:403-410 (1990).
	AS	Aumais *et al.*, "elective Interaction of hsp90 with an Estrogen Receptor Ligand-binding Domain Containing a Point Mutation, J. Biol. Chem. 272(18):12229-35 (1997).

EXAMINER | DATE CONSIDERED 1-31-02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 22908-1227B	SERIAL NO. 09/586,625
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	FILING DATE 06/02/00	GROUP 1645

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AT	Ayer *et al.*, Mad Proteins Contain a Dominant Transcription Repression Domain, Mol. Cell. Biol. 16(10):5772-5781 (1996).
	AU	Barbas *et al.*, From Catalytic Asymmetric Synthesis to the Transcriptioanl Regulation of Genes: In Vivo and In Vitro Evolution of Proteins, Adv. Protein Chem. 55:317-66 (2000).
	AV	Barbas *et al.*, Semisynthetic combinatorial antibody libraries: A chemical solution to the diversity problem, TITLE???? 89:4457-61 (1992).
	AW	Barbas *et al.*, Assembly of combinatorial antibody libraries on phage surfaces: The gene III site, Proc. Natl. Acad. Sci. USA, 88:7978-82 (1991).
	AX	Barbas *et al.*, Combinatorial Immunoglobulin Libraries on the Surface of Phage (Phabs): Rapid Selection of Antigen-Specific Fabs, Methods 2:119-24 (1991).
	AY	Baron *et al.*, Tetracycline-controlled transcription in eukaryotes: novel transactivators with graded transactivation potential, Nucl. Acids. Res. 25(14):2723-9 (1997).
	AZ	Beerli *et al.*, Positive and Negative Regulation of Endogenous Genes by Designed Transcription Factors, Proc. Natl. Acad. Sci. USA 97(4):1495-500 (2000).
	BA	Beerli *et al.*, Chemically Regulated Zinc Finger Transcription Factors, J. Biol. Chem. 275(42):32617-27 (2000).
	BB	Beerli *et al.*, Chemically Regulated Zinc Finger Transcription Factors, Journal of Biological Chemistry Papers in Press. Live on the JBC's website on August 2, 2000 as Manuscript M005108200.
	BC	Beerli *et al.*, Toward controlling gene expression at will: Specific regulation of *erbB-2/HER-2* promoter by using polydactyl zinc finger proteins constructed from modular building blocks, Proc. Natl. Acad. Sci. USA 95:14628-33 (1998).
	BD	Bergqvist *et al.* Loss of DNA-binding and new transcriptional *trans*-activation function in polyomavirus large T-antigen with mutation of zinc finger motif, Nucl. Acids Res. 18(9):2715-20 (1990).
	BE	Better *et al.*, *Esherichia coli* Secretion of an Active Chimeric Antibody Fragment, Science 240:1041-3 (1988).
	BF	Burcin *et al.*, Adenovirus-mediated regulable target gene expression *in vivo*, Proc. Natl. Acad. Sci. USA 96:355-60 (1999).
	BG	Carrillo, *et al.*, The Multiple Sequence Alignment Problem in Biology, SIAM J Applied Math 48(5):1073 (1988).
	BH	Choo *et al.*, Toward a code for the interaction of zinc fingers with DNA: Selection of randomized fingers displayed on phage, Proc. Natl. Acad. Sci. USA 91:11163-7 (1994).

EXAMINER _____ DATE CONSIDERED 1-31-02

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BI	Corsaro *et al.*, Enhancing the Efficiency of DNA-Mediated Gene Transfer in Mammalian Cells, Somatic Cell Genetics 7(5):603-616 (1981).
	BJ	Danielian *et al.*, Identification of Residues in the Estrogen Receptor That Confer Differential Sensitivity to Estrogen and Hydroxytamoxifen, Mol. Endocrinol. 7:234-40 (1993).
	BK	Debs *et al.* Regulation of Gene Expression *in Vivo* by Lipsome-mediated Delivery of a Purified Transcription Factor, J. Biol. Chem. 265(18):10189-92 (1990).
	BL	Desjarlais, *et al.*, Use of zinc-finger consensus framework and specificity rules to design specific DNA binding proteins, Proc. Natl. Acad. Sci. USA 90:2256-60 (1993).
	BM	Devereux *et al.*, A comprehensive set of sequence analysis programs for the VAX, Nucleic Acids Research 129(1):387-395 (1984).
	BN	Drier *et al.*, Insights into the Molecular Recognition of the 5'-GNN-3' Family of DNA Sequences by Zinc Finger Domains, J. Mol. Biol. 303(4):489-502 (2000).
	BO	Elrod-Erickson *et al.*, High-resolution structures of variant Zif268-DNA complexes: implications for understanding zinc finger-DNA recognition, Structure 6:451-64 (1998).
	BP	Elrod-Erickson *et al.*, Zif268 protein-DNA complex refined at 1.6 Angstroms: a model system for understanding zinc finger-DNA interactions, Structure 4:1171-80 (1996).
	BQ	Fraley *et al.*, New generation liposomes: the engineering of an efficient vehicle for intracellular delivery of nucleic acids, Trends Biochem. Sci. 6:77-80 (1981).
	BR	Friedman *et al.*, KAP-1, a novel corepressor for the highly conserved KRAB repression domain, Genes & Dev. 10:2067-78 (1996).
	BS	Gorziglia *et al.*, Elimination of both E1 and E2a from Adenovirus Vectors Further Improves Prospects for In Vivo Human Gene Therapy, J. Virol. 70(6):4173-78 (1996).
	BT	Gossen *et al.*, Tight control of gene expression in mammalain cells by tetracycline-responsive promoters, Proc. Natl. Acad. Sci. USA 89:5547-51 (1992).
	BU	Greisman *et al.*, A General Strategy for Selecting High-Affinity Zinc Finger Proteins for Diverse DNA Target Sites, Science 275:657-61 (1997).
	BV	Gribskov, *et al.*, Sigma factors from *E. coli, B. subtilis,* phage SP01, and phage T4 are homologous proteins, Nucl. Acids Res. 14:6745-63 (1986).
	BW	Grignani *et al.* Formation of PML/RARα high molecular weight complexes through the PML coiled-coil region is essential for the PML/RARα-mediated retinoic acid response, Oncogene 18:6313-21 (1999).

EXAMINER | DATE CONSIDERED 1/31/02

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BX	Hall *et al.*, Efficient sequence-specific cleavage of RNA using novel europium complexes conjugated to oligonucleotides, Chemistry and Biology 1:185-190 (1994).
	BY	He *et al.*, A simplified system for generating recombinant adenoviruses, Proc. Natl. Acad. Sci. USA 95:2509-14 (1998).
	BZ	Heinzel *et al.*, A complex containing N-CoR, mSin3 and histone deacetylase mediates transcriptional repression, Nature 387:43-6 (1997).
	CA	Isalan *et al.*, Comprehensive DNA Recognition through Concerted Interactions from Adjacent, Biochemistry 37:12026-33 (1998).
	CB	Ishii *et al.*, Characterization of the promoter region of the human c-*erbB*-2 protooncogene, Proc. Natl. Acad. Sci. USA 84:4374-8 (1987).
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	CD	Jamieson *et al.*, A zinc finger directory for high-affinity DNA recognition, Proc. Natl. Acad. Sci. USA 93:12834-9 (1996).
	CE	Jamieson *et al.*, *In Vitro* Selection of Zinc Fingers with Altered DNA-Binding Specificity, Biochemistry 33:5689-95 (1994).
	CF	Jaye *et al.*, Isolation of a human anti-haemophilic factor IX cDNA clone using a unique 52-base synthetic oligonucleotide probe deduced from the amino acids sequence of bovine factor IX, Nucl. Acids. Res. 11: 2325-35 (1983).
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	CH	Kalderon *et al.* A Short Amino Acid Sequence Able to Specify Nuclear Location, Cell 39:499-509 (1984).
	CI	Lai *et al.*, Conserved organization of the human and murine T-cell receptor β-gene families, Nature 331:543-6 (1988).
	CJ	Landschulz *et al.* The Leucine Zipper: A Hypothetical Structure Common to a New Class of DNA Binding Proteins, Science 240:1759-64 (1988).
	CK	Littlewood *et al.*, A modified oestrogen receptor ligand-binding domain as a improved switch for the regulation of heterologous proteins, Nucl. Acids. Res. 23: 1686-90 (1995).
	CL	Liu *et al.*, Design of Polydactyl Zinc-finger Proteins for Unique Addressing within Complex Genomes, Proc. Natl. Acad. Sci. USA 94(11):5525-30 (1997).

EXAMINER _____ DATE CONSIDERED 1-31-08

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 22908-1227B	SERIAL NO. 09/586,625
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT Barbas III et al.	
	FILING DATE 06/02/00	GROUP 1645

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CM	Mack *et al.*, Design and Chemical Synthesis of a Sequence-Specific DNA-Cleavage Protein, J. Am. Chem. Soc. 110:7572-4 (1988).
	CN	Maniatis *et al.*, Molecular Cloning-A Laboratory Manual, Cold Spring Harbor Laboratory (1982).
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	CU	Pearson and Lipman, Improved Tools for Biological Sequence Comparison, Proc. Natl. Acad. Sci. USA 85:2444-2448 (1988).
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EXAMINER | DATE CONSIDERED 5/7/02

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 22908-1227B	SERIAL NO. 09/586,625
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT Barbas III et al.	
	FILING DATE 06/02/00	GROUP 1645

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	DB	Rebar and Pabo, Zinc Finger Phage: Affinity Selection of Fingers with New DNA-Binding Specificities, Science 263:671-673 (1994).
	DC	Regulatory Issues: Future Meetings of the NIH Recombinant DNA Advisory Committee, Human Gene Therapy 5:541-563 (1994).
	DD	Rollins *et al.* Role of TFIIIA Zinc FIngers In Vivo: Analysis of Single-Finger Function in Developing *Xenopus* Embryos, Molecular and Cellular Biology 13(8):4776-83 (1993).
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	DN	Smith, *et al.*, Single Step purification of polypeptides expressed in *Escherichia coli* as fusions with glutathione S-transferase, Gene 67:31-40 (1988).
	DO	Smith, *et al.*, Comparison of Biosequences, Adv. Appl. Math. 2:482 (1981).
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EXAMINER | DATE CONSIDERED 1-3-02

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	FILING DATE 06/02/00	GROUP 1645

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	DQ	Steinberger *et al.*, Generation and characterization of a recombinant human CCR5-specific Antibody: A phage display approach for rabbit antibody humanization, J. Biol. Chem. 275(46): 36073-36078 (2000).
	DR	Swirnoff and Milbrandt, DNA-Binding Specificity of NGF-A and Related Zinc Finger Transcription Factors, Mol. Cell. Biol. 15(4):2275-2287 (1995).
	DS	Takasaki and Chin, Cleavage of the Phosphate Diester Backbone of DNA with Cerium (III) and Molecular Oxygen, J. Am. Chem. Soc. 116:1121-1122 (1994).
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	DW	Vinson *et al.* Scissors-Grip Model for DNA Recognition by a Family of Leucine Zipper Proteins, Science 246:911-6 (1989).
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	DY	Wang *et al.*, A Regulatory System for Use in Gene Transfer, Proc. Natl. Acad. Sci. USA 91:8180-8184 (1994).
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	EA	Wright *et al.* Expression of a Zinc Finger Gene in HTLV-I- and HTLV-II- Transformed Cells, Science 248:588-91 (1990).
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EXAMINER [signature] | DATE CONSIDERED 1-31-02

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. .: 7,329,728

APPLICATION NO .: 09/586,625

DATED .: MAY 02, 2008

INVENTOR(S) .: BARBAS III ET AL.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE TITLE PAGES:

In Item [56] References Cited, in U.S. PATENT DOCUMENTS:

please add the following reference: —2003/0186841 10/2003 Barbas III et al.—
please add the following reference: —2004/0224385 4/2005 Barbas et al.—
please add the following reference: —2005/0084885 4/2005 Barbas III et al.—
please add the following reference: —2005/0148075 7/2005 Barbas, C.F.—
please add the following reference: —6,790,941 9/2004 Barbas III et al.—

In Item (56) References Cited, in FOREIGN PATENT DOCUMENTS:

please add the following reference: —WO 1/52620 07/2001—
please add the following reference: —WO 2/06463 01/2002—
please add the following reference: —WO 2002/097050 12/2002—

In Item [56] References Cited, in OTHER PUBLICATIONS:

please add the following reference: — Alwin et al., "Custom zinc-finger nucleases for use in human cells," Mol. Ther. 12(4): 610-617 (2005)—.

please add the following reference: — Blancafort et al., "Designing transcription factor architectures for drug discovery," Mol. Pharmacol. 66(6): 1361-71 (2004)—.

please add the following reference: — Blancafort et al., "Genetic reprogramming of tumor cells by zinc finger transcription factors," Proc. Natl. Acad. Sci. USA

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INVENTOR(S) .: BARBAS III ET AL.

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102(33): 11716-21 (2005)—.
please add the following reference: — Blancafort et al., "Scanning the human genome with combinatorial transcription factor libraries," Nature Biotechnol. 31(3): 269-274 (2003)—.
please add the following reference: — Blau et al., "γ-globin gene expression in CID-dependent multi-potential cells established from beta-YAC transgenic mice," J. Biol. Chem. August 30, 2005—.
please add the following reference: — Dreier et al., "Development of zinc finger domains for recognition of the 5'-ANN-3' family of DNA sequences and their use in the construction of artificial transcription factors," J. Biol. Chem. 276(31): 29466-78 (2001)—.
please add the following reference: — Dreier et al., "Development of zinc finger domains for recognition of the 5'-CNN-3' family DNA sequences and their use in the construction of artificial transcription factors," J. Biol. Chem. 280(42):35588-35597 (2005)—.
please add the following reference: — Graslund et al., "Exploring strategies for the design of artificial transcription factors: targeting sites proximal to known regulatory regions for the induction of γ-globin expression and the treatment of sickle cell disease," J. Biol. Chem. 280(5): 3707-14 (2005)—.
please add the following reference: — Guan et al., "Heritable endogenous gene regulation in plants with designed polydactyl zinc finger transcription factors," Proc. Natl. Acad. Sci. USA 99(20): 13296-301 (2002)—.
please add the following reference: — Lin et al., "Small-molecule switches for zinc

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finger transcription factors," J. Am Chem. Soc. 125(3): 612-3 (2003)—.
please add the following reference: — Lund et al., "Promoter-targeted phage display selections with preassembled synthetic zinc finger libraries for endogenous gene regulation," J. Mol. Biol. 340(3): 599-613 (2004)—.
please add the following reference: — Lund et al., "Zinc Finger Transcription Factors Designed for Bispecific Coregulation of ErB2 and ErbB3 Receptors: Insights into ErbB Receptor Biology," Mol. Cell. Biol. 25(20): 9082-91 (2005)—.
please add the following reference: — Magnenat et al., "In vivo selection of combinatorial libraries and designed affinity maturation of polydactyl zinc finger transcription factors for ICAM-1 provides new insights into gene regulation," J. Mol. Biol. 341(3): 635-49 (2004)—.
please add the following reference: — Ordiz et al., "Regulation of transgene expression in plants with polydactyl zinc finger transcription factors," Proc. Natl. Acad. Sci. USA 99(20): 13290-5 (2002)—.
please add the following reference: — Segal et al., "Custom DNA-binding proteins come of age: polydactyl zinc-finger proteins," Curr. Opin. Biotechnol. 12(6): 632-7 (2001)—.
please add the following reference: — Segal et al., "Evaluation of a modular strategy for the construction of novel polydactyl zinc finger DNA-binding proteins," Biochemistry 42(7): 2137-2148 (2003)—.
please add the following reference: — Segal et al., "Attenuation of HIV-1 replication in primary human cells with a designed zinc finger transcription factor," J. Biol. Chem. 279(15): 14509-19 (2004)—.

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INVENTOR(S) .: BARBAS III ET AL.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

please add the following reference: — Segal et al., "Zinc fingers and a green thumb: manipulating gene expression in plants," Curr. Opin. Plant Biol. 6(2): 163-8 (2003)—.
please add the following reference: — Stege et al., "Controlling gene expression in plants using synthetic zinc finger transcription factors," Plant J. 32(6): 1077-86 (2002)—.
please add the following reference: — Tan et al. , "Fusion proteins consisting of human immunodeficiency virus type 1 integrase and the designed polydactyl zinc finger protein E2C direct integration of viral DNA into specific sites," J. Virol. 78(3): 1301-13 (2004)—.
please add the following reference: — Xu et al., "A versatile framework for the design of ligand-dependent, transgene-specific transcription factors," Mol. Ther. 3(2): 262-73 (2001) —.
2003. —.
in Rollins, et al., please replace "TFIIA" with — TFIIIA—.

IN THE CLAIMS:

Please replace Claim 32 with the following amended claim:

32. The vector of claim 31 that is selected from the group consisting of an adenoviral vector, an adeno-associated viral vector, a herpes virus vector, a vaccinia virus vector and a lentiviral vector.

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INVENTOR(S) .: BARBAS III ET AL.

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please replace Claim 34 with the following amended claim:

34. The vector of claim 33 that is selected from the group consisting of an adenoviral vector, an adeno-associated viral vector, a herpes virus vector, a vaccinia virus vector and a lentiviral vector.

Please replace Claim 35 with the following amended claim:

35. A combination, comprising:
a composition containing a fusion protein of claim 1; or
a composition containing a nucleic acid molecule comprising a sequence of nucleotides that encodes the fusion protein; and
a composition containing a regulatable expression cassette that comprises at least one response element recognized by the nucleic acid binding domain of the fusion protein.

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